



**Help Greasy with**



**DO** put grease in a soup can, freeze it and then throw it in the trash can!

**DON'T** pour grease or cooking oil in the kitchen sink.

**DO** use a paper towel to wipe out a frying pan, and then put the paper towel and food scraps in the trash.

**DON'T** use hot water to rinse grease off cooking utensils or eating utensils.

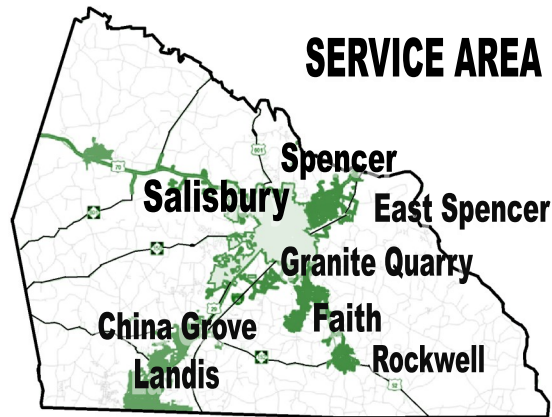
**NEVER** put any item in the toilet except toilet tissue!

Items like those listed below can cause problems in the lines and treatment plants:

Baby and disinfecting wipes, toilet scrubber sponges, mop refills, paper towels, rags, shop towels, Kleenex, disposable diapers, dental floss, hygiene products, syringes, cotton swabs, razors, surgical gloves, anything plastic, cat litter, cigarette butts, cosmetics, medicines, paint, pesticides, etc.

*Please report anyone dumping any type of material into manholes to Environmental Services at 704-638-5375. It is against the law!*

N.C. General Statute Chapter 143, Article 21, Part 1, 143-215.1C requires municipalities that operate wastewater collection and treatment systems to publish an annual report summarizing the performances of their collection system and treatment works and the extent to which the system has violated their permit, federal or state laws, regulations, or rules related to the protection of water quality.



### Treatment and Collection Staff Contacts:

Water & Wastewater Treatment Plants  
Operation Manager

*Jim Amaral*– 704-638-5374

Operator in Responsible  
Charge of the City of Salisbury WWTP  
*Robert Loper*– 704-638-5374

Operator in Responsible  
Charge of Residuals Management  
*Robert Loper*– 704-638-5374

Operator in Responsible  
Charge of Collection System  
*Randy Allman* – 704-638-5390

Laboratory Services Supervisor  
*Alan Fowler* - 704-638-5376

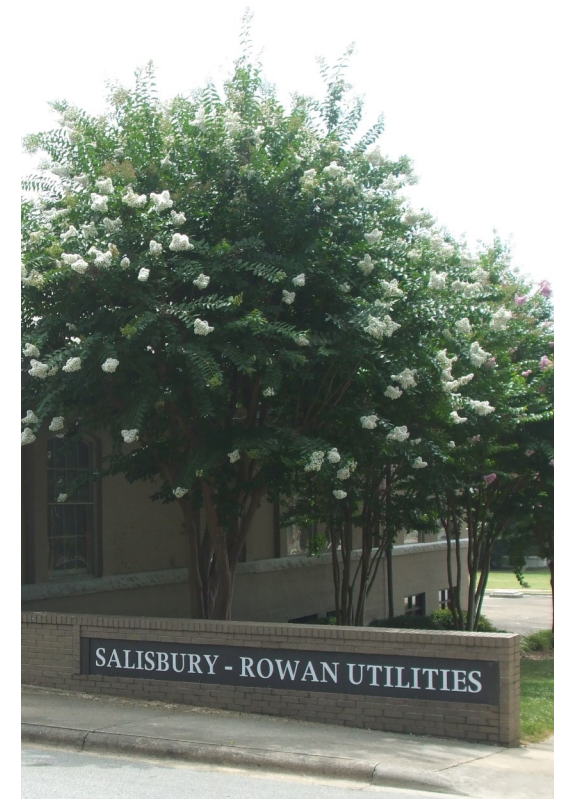
This report covers the calendar year from January 1 through December 31, 2019 and is available on-line at [www.salisburync.gov](http://www.salisburync.gov).

Any questions pertaining to this report should be directed to  
Environmental Services Manager,  
*Sonja Basinger* at 704-638-5375.

**Salisbury-Rowan**  
UTILITIES

# WASTEWATER SYSTEM

## Annual Report



# 2019

*Our mission is CLEAR!*

Salisbury-Rowan Utilities (SRU) provides wastewater treatment at the Town Creek treatment train located near Interstate 85 and the Grants Creek treatment train off of Grubb Ferry Road. The effluents at both trains are disinfected with sodium hypochlorite and then the combined effluents from both trains are dechlorinated with sodium bisulfite at the City of Salisbury Wastewater Treatment Plant (WWTP) and discharged into the Yadkin River.

SRU treats industrial, commercial and residential waste from Salisbury, Landis, China Grove, Spencer, East Spencer, Rockwell, Faith and Granite Quarry. Gravity sewer lines, force mains and lift stations collect and pump the wastewater to the treatment trains. An average of 8.8 million gallons per day is treated using a process called activated sludge. Trash and rags are first removed by bar screens. Heavy particles such as sand and grit settle out as the flow slows in the grit chamber. The wastewater is then pumped to aeration basins, which contain *activated sludge*. The microorganisms or “bugs” feed on the wastewater particles. The process then moves to clarifiers where the “bugs” settle out leaving clear treated wastewater or *effluent*. Sodium hypochlorite is used for disinfection at the City of Salisbury WWTP.

Solids “left over” from the treatment process are separated from the treated effluent by a filter belt press. The solid material or “biosolids” that is left is applied to permitted farmland in Rowan County as a substitute for fertilizer. Only crops grown for animal feed can be raised after biosolids are applied. SRU’s Land Application Program (Permit # WQ001956) land applied a combined total of 1,782.9 dry tons across 335.7 acres of farmland in 2019. Salisbury-Rowan Utilities has a total of 1,005.1 acres of land permitted.

SRU operates a North Carolina certified municipal laboratory where tests are analyzed 5 days per week.

**City of Salisbury WWTP (Permit NC0023884)-** The City of Salisbury WWTP had the following permit limit violations in 2019 (all other treatment parameters were within permit limits):

- January 2019: Monthly flow exceedances for the Yadkin effluent flow of 12.8 mgd (permit limit 12.5 mgd) and Grants Creek effluent flow of 8.09 mgd (permit limit 7.5 mgd). Both exceedances were due to severe natural condition.
- February 2019: Monthly flow exceedances for the Yadkin effluent flow of 13.1 mgd (permit limit 12.5 mgd), Grants Creek effluent flow of 8.04 mgd (permit limit 7.5 mgd) and Town Creek effluent flow of 5.06 mgd (permit limit 5.0 mgd). The flow exceedances were due to severe natural condition.
- April 2019: BOD weekly average violation of 24.6 mg/L (permit limit 22.5 mg/L) for the week of April 7-13 due to 1.5 inches of rainfall in 4 hours.
- September 23, 2019: Yadkin effluent pH daily minimum violation of 5.92 s.u. (permit daily minimum limit 6.0 s.u.) due to faulty pH probe.

The Town Creek WWTT had a wastewater bypass of 136 gallons that discharged to Town Creek on July 31, 2019 due to overflow from an abandoned trickling filter line.

**SRU Collection System Reportable Sanitary Sewer Overflows (Permit WQCS00019):**

Date	Location	Gallons	Gallons into stream	Receiving Stream	Cause
1/17/19	714 S. Main St (Granite Quarry)	30	30	Town Creek	Pipe failure
1/30/19	420 Spyglass Field Place (Salisbury)	50,000	50,000	Grants Creek	Sewer line damage by private contractor
2/18/19	503 Woodland Dr (Rockwell)	4,550	4,550	Second Creek	Roots and debris
3/24/19	401 N. Rowan Ave Ext (Spencer)	10	10	Grants Creek	Foam product from local industry
4/23/19	Fesperman Pump Station (Rockwell)	40	40	Tributary to Dutch 2nd Creek	Power failure
5/14/19	8565 US Hwy 52 (Rockwell)	30	30	Second Creek	Pipe failure
	Total Gallons	54,660	54,660		

All discharges of any amount that reach surface waters are reported to the Division of Water Resources. In addition, any spills to the ground that exceed 1,000 gallons are reported. If a discharge of 1,000 gallons or more reaches surface waters, a press release is sent to The Salisbury Post within 24 hours. If a discharge is more than 15,000 gallons, a public notice is placed in The Salisbury Post and The Stanly News and Press (to notify the affected area downstream of Salisbury).